GSTIN: 29AYHPN8663P1ZA
QUALIEX CIVIL DESIGN & CONSULTANCY
Project Management Services

Ref: QECD/BBMP/ELE/YNK/QC-09/2020-21 **Date: 03-09-2020**

To,
The Executive Engineer,
Yelahanka Division,
Yelahanka Zone,
Bangalore-560064.

From,
Qualiex Civil Design & Consultancy,
#42, 18th Cross, Sri Rampura Main Road,
Jakkur, Amruthahalli,
Bangalore-560064.

INSPECTION CERTIFICATE

Sub: Certifying the 1st and Final for the Work of **"Providing Street Light in Ward No1.Yelahanka Sub Division".**

With Respect to above subject, this is bringing to your kind information that we have inspected the work and certifying that there is issue of Quality and Quantity of Work. The Contractor **"Sri. Pradeep Electricals",** Bangalore towards the above work has been completed the work satisfactorily.

Thanking You,

Yours Faithfully

For Qualiex Civil Design & Consultancy

Authorized Signature

Address: #42, 18th Cross, Sri Ram Pura Main Road, Jakkur, Amruthahalli, Bangalore-560064
Ph No:- +91 9482685185, +91 9035830663 *Email: qualiexpvtltd@gmail.com*

GSTIN: 29AYHPN8663P1ZA
QUALIEX CIVIL DESIGN & CONSULTANCY
Project Management Services

Ref: QECD/BBMP/ELE/YNK/PMC-09/118/2020-21 **Date: 03-09-2020**

To,
The Executive Engineer (Ele),
Yelahanka Zone,
BBMP, Byatarayanapura,
Bangalore-560064.

From,
Qualiex Civil Design & Consultancy,
#42, 18th Cross, Sri Rampura Main Road,
Jakkur, Amruthahalli,
Bangalore-560092.

PMC CERTIFICATE

Sub: Certifying the 1st and Final for the Work of **"Providing Street Light in Ward No1.Yelahanka Sub Division".**

With Respect to above subject, this is bringing to your kind information that we have scrutinized the 1st & Final Bill submitted by **"Sri. Pradeep Electricals"**, Contractor, Bangalore towards the above work. The work has been completed satisfactorily.

Sl No	Discription Work	Unit	Quantity	Amount in Rs.
1	LED Street light.Supply of LED Streetlight with pressure die cast aluminum housing body with optimal heat sink for better thermal dissipation. Diffuser with Injection moulded & is made of polycarbonate material with high transmission index, delivering superior light output. Rated life Burning Hrs 50000 hr @	Nos	11.00	47971.00
2	65watts	Nos	2.00	23624.00

3	Supplying of LED Floodlight with .....W System Power consumption pressure die cast aluminum housing with powder coating with IP 65 protection. 1, 200-275V voltage with electronic Driver, PF>0.9, should meet ANSI 2G Vibration test, Compliance to UL/CE with Class I. System rating shall be 50K hrs. @ Lumen maintenance of 70%, system efficacy > 80lm/w. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008. Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 5 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer.LED Floodlight 150W .	Nos	8.00	119016.00
4	Supplying & fixing of 32 mm dia class A GI pipe bracket up to 2 mtrs long bent at suitable angle and fixing to this bracket 1x40/2x40 or rail or RCC pole/wall using suitable clamps, bolts, and nuts and wiring using suitable capacity wires complete. Using 32mm dia G.I pipe	Nos	2.00	1126.00
5	Wiring for lighting / power circuit using one of pvc insulated 1100v grade stranded aluminum unsheathed wire single core cable in open or concealed system of wiring as per IS - 694 : 19904sq mm	Mtrs	10.00	40.00
6	Supply and erection of .....Mtr RCC Pole including earth work etc,. complete as per the standard technical specification of BESCOM9Mtr 145Kg WL	Nos	3.00	15198.00
7	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A.4 core 16 sqmm	Mtrs	88.00	7744.00
8	3.5 core 25 sqmm	Mtrs	60.00	6240.00
9	3.5 core 50 sqmm	Mtrs	117.00	19539.00

10	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.In existing trench/duct.6 sqmm to 16 sqmm	Mtrs	88.00	528.00
11	25 sqmm to 75 sqmm	Mtrs	177.00	1770.00
12	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete.(As per Civil SR KSRB I-2, P-7)	Mtrs	90.00	4410.00
13	Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV.50mm	Mtrs	12.00	2952.00
14	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit … The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia	No	1.00	1720.00
15	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc.25Sqmm	No	2.00	1056.00
16	Fabricating supplying and mounting MS box made out … SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete.16SWG	Sqcms	0.33	6871.59
17	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers.32Amps	Nos	6.00	168.00

18	Fabricating, supplying and erection of …Mtrs long hot dip Galvanized Octagonal pole with BSEN 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with door opening arrangements, including suitable boards, Bakelite sheet and MCBs as per IS specifications suitable to withstand the wind speed of 47 m/sec for …….Mtrs pole in single section and single joint welded as per IS 9595/IS 10178AWS having dimensions bottom …..mm, top….mm with 3mm thick, suitable base plate and 4Nos of ..... long J bolts along with template and the pole shall be hot dip galvanized in single dipping with not less than 65micron as per ASTM-A123 and 153 etc., (excluding foundation) as per drawing appended. 7 meters - Top 70mm and bottom 130mm dia	Nos	4.00	31348.00
19	Providing Rcc Pole pedstal of Size 0.5x0.5x1.6 Mtrs Including digging of pit, tor steel, anchoring bolts nuts ,templates ,Centring,1;4;8base concrete,1;2;4pedestal concrete and etc coplete as per the data sheet enclosed	Nos	4.00	10596.00
20	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. And M.S. flat… with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. a)40X40X6mm	Nos	11.00	1815.00
21	Supplying and fixing of Twin Dial electro mechanical timer (without contactor) using necessary bolts, nuts and washers etc.. Group A, PWD SR 2007-08,	Nos	1.00	2650.00
22	Supply and fixing of 4-pole power contactor with NO/NC contacts on existing wood / panel board using necessary bolts, nuts, washers and wiring etc., complete. d) 100-125 Amps	Nos	1.00	6256.00
23	Supplying and fixing miniature circuit breakes on exisiting MCB distribution boards using necessary fixing materials and wiring complete as required. f)40-63Amps TPN, Group A	Nos	2.00	2442.00
	Total Amount			**315080.59**

Thanking You,

Yours Faithfully

For Qualiex Civil Design & Consultancy

Authorized Signature